



TDOT

Department of
Transportation

**Welcome to the webinar!
We'll begin shortly.**

I-40/81 Multimodal Corridor Study

Round 2 Virtual Public Meetings

December 2, 2020



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TODAY'S AGENDA



CORRIDOR STUDY

- Study Purpose
- Types of Needs Identified on I-40 and I-81
- Recommended Solutions
- Discussion / Questions

STUDY PURPOSE



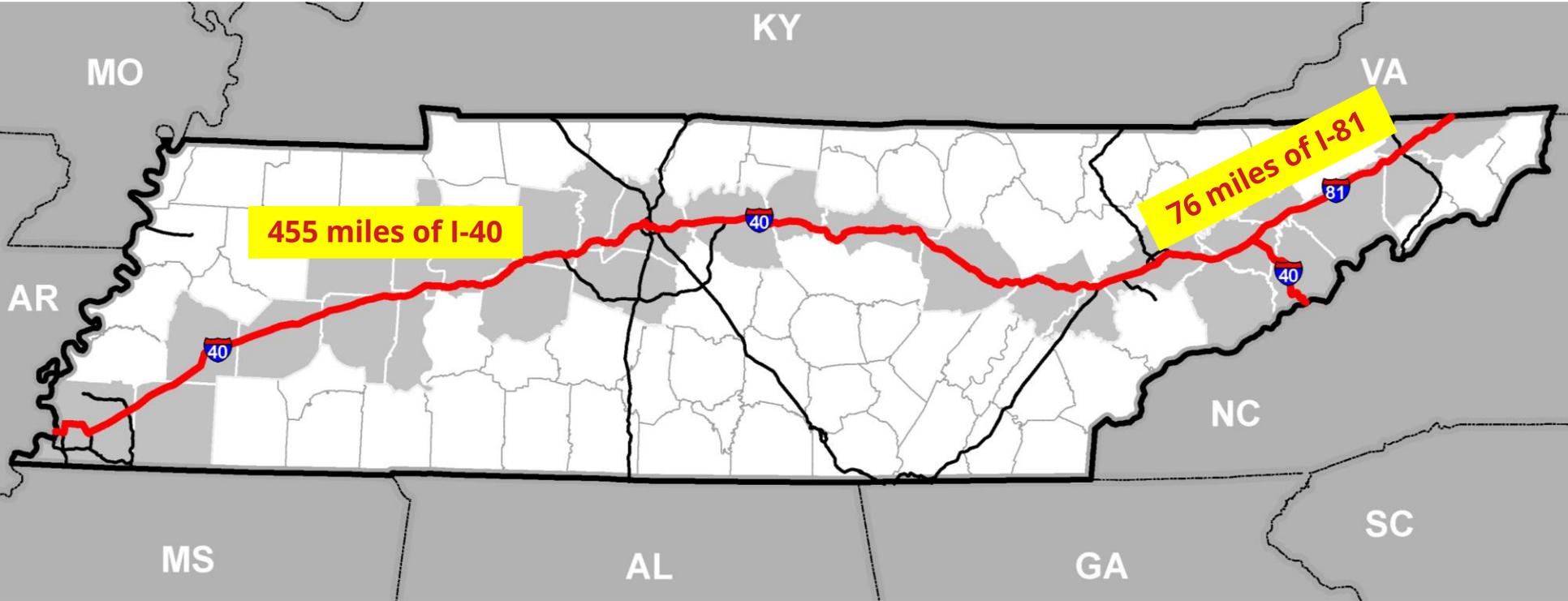
WHAT THIS STUDY IS:

- ✓ A 20-year, phased set of recommended transportation improvements for the I-40 and I-81 corridors

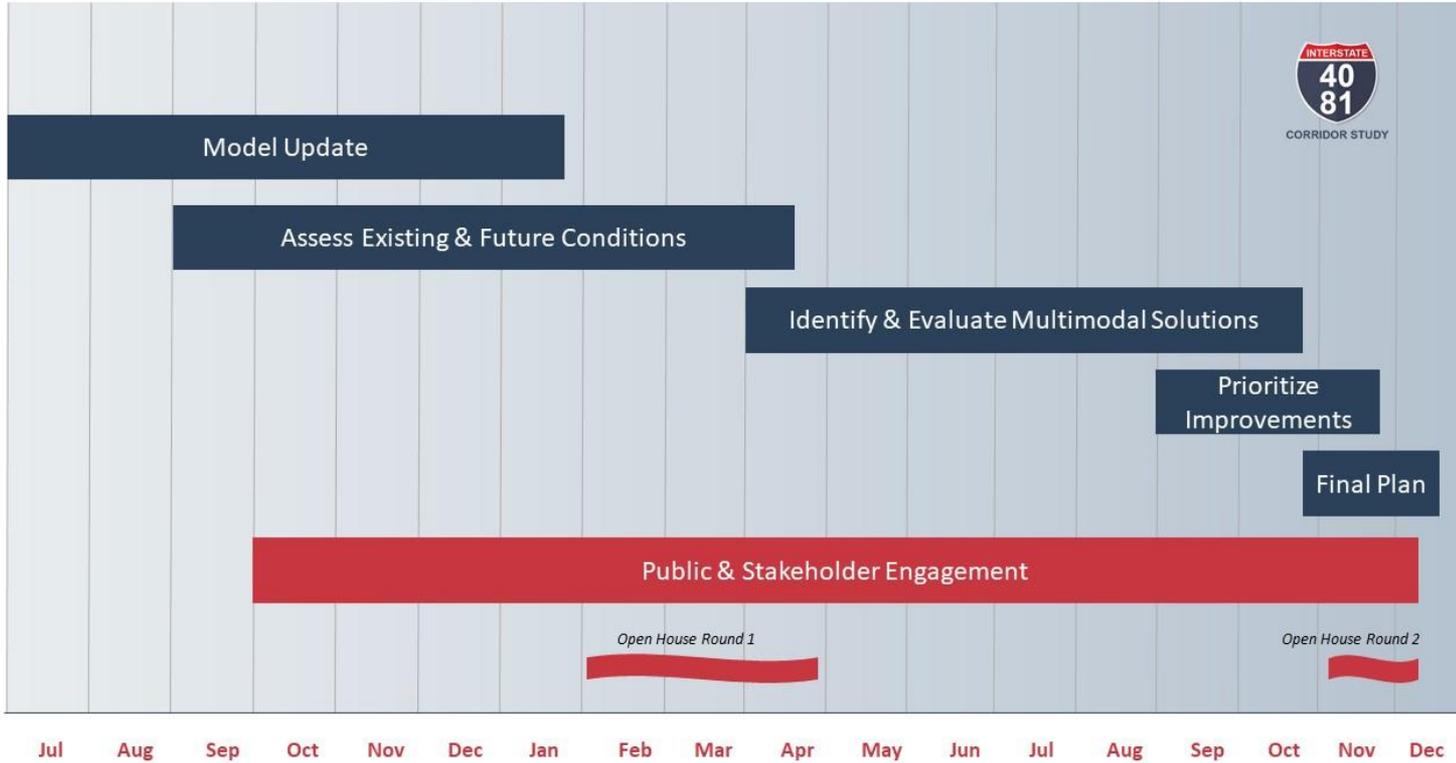
PURPOSE:

- ✓ Guidance for decision-makers regarding future projects
- ✓ Promote coordination with stakeholders on the future of this corridor

CORRIDOR STUDY AREA



STUDY TIMELINE



RECOMMENDED SOLUTION TYPES



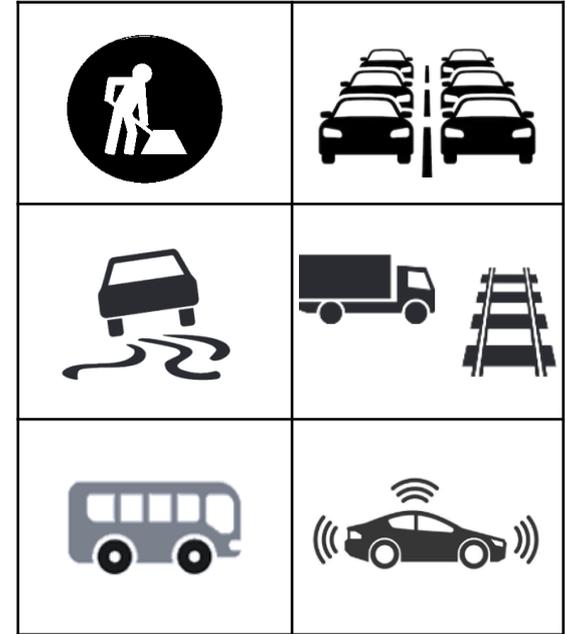
Highway Expansion

Safety

Transportation Systems Management & Operations

Freight

Transit



I-40/81 PROJECTS IN THE IMPROVE ACT

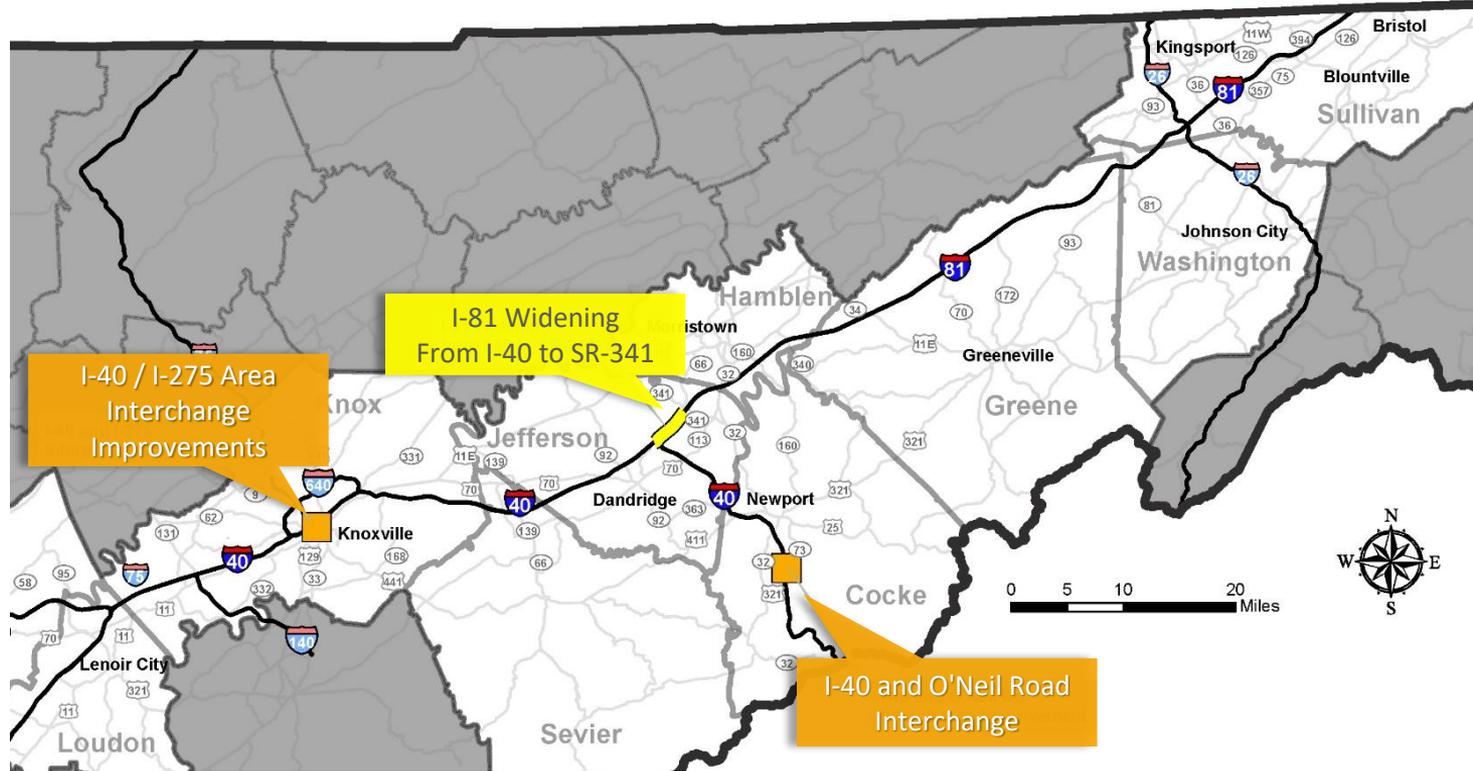


I-40:

- *Downtown Knoxville*
- *Cocke County*

I-81:

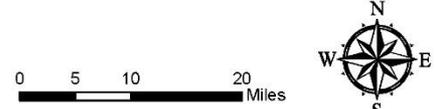
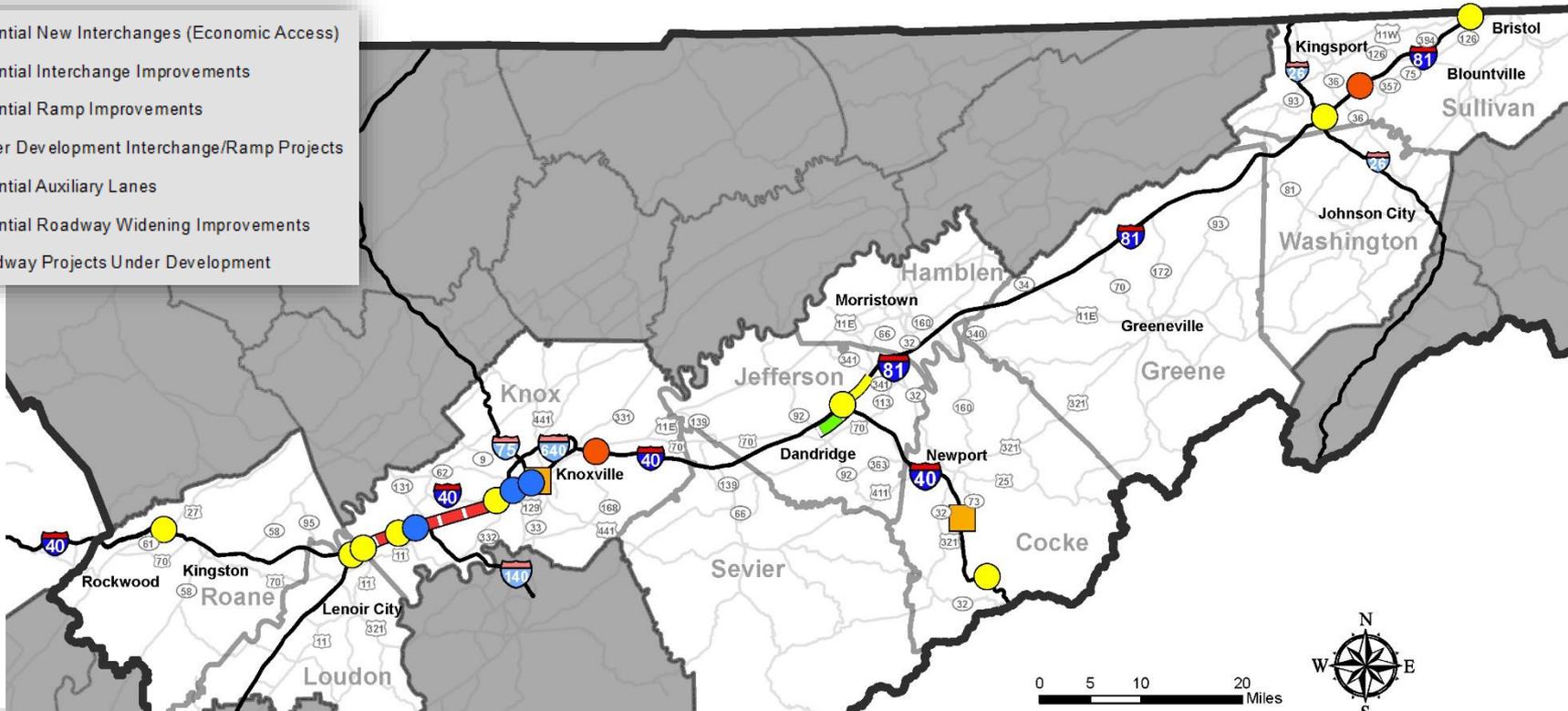
- *Exits 1 to 4 in Jefferson County*



RECOMMENDED HIGHWAY IMPROVEMENTS



- Potential New Interchanges (Economic Access)
- Potential Interchange Improvements
- Potential Ramp Improvements
- Under Development Interchange/Ramp Projects
- Potential Auxiliary Lanes
- Potential Roadway Widening Improvements
- Roadway Projects Under Development

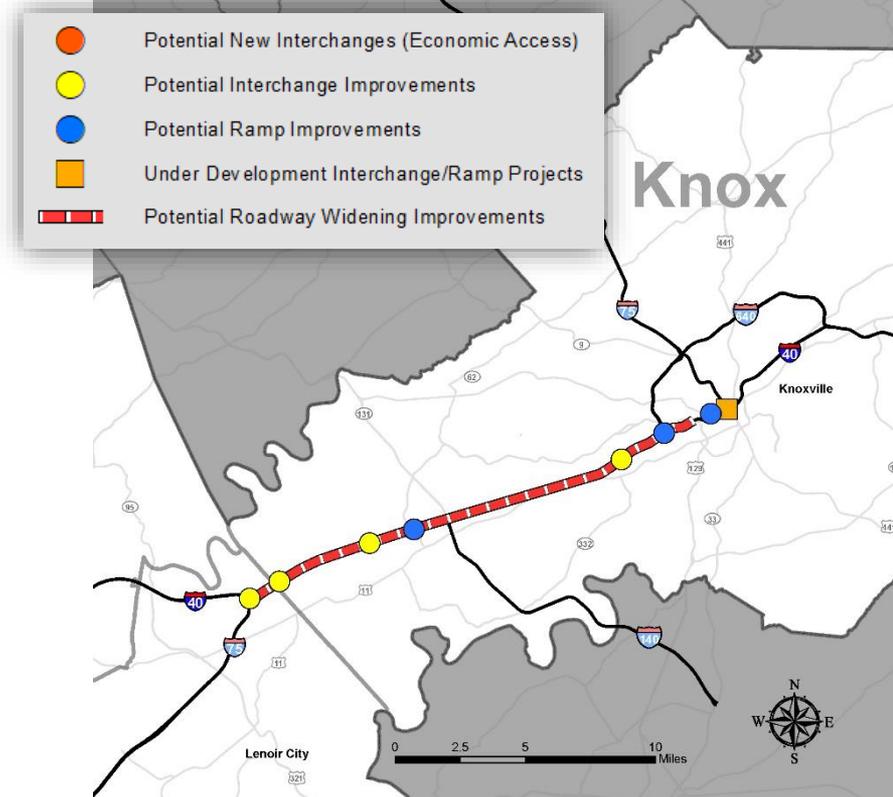


RECOMMENDED HIGHWAY IMPROVEMENTS



I-40, Knoxville area

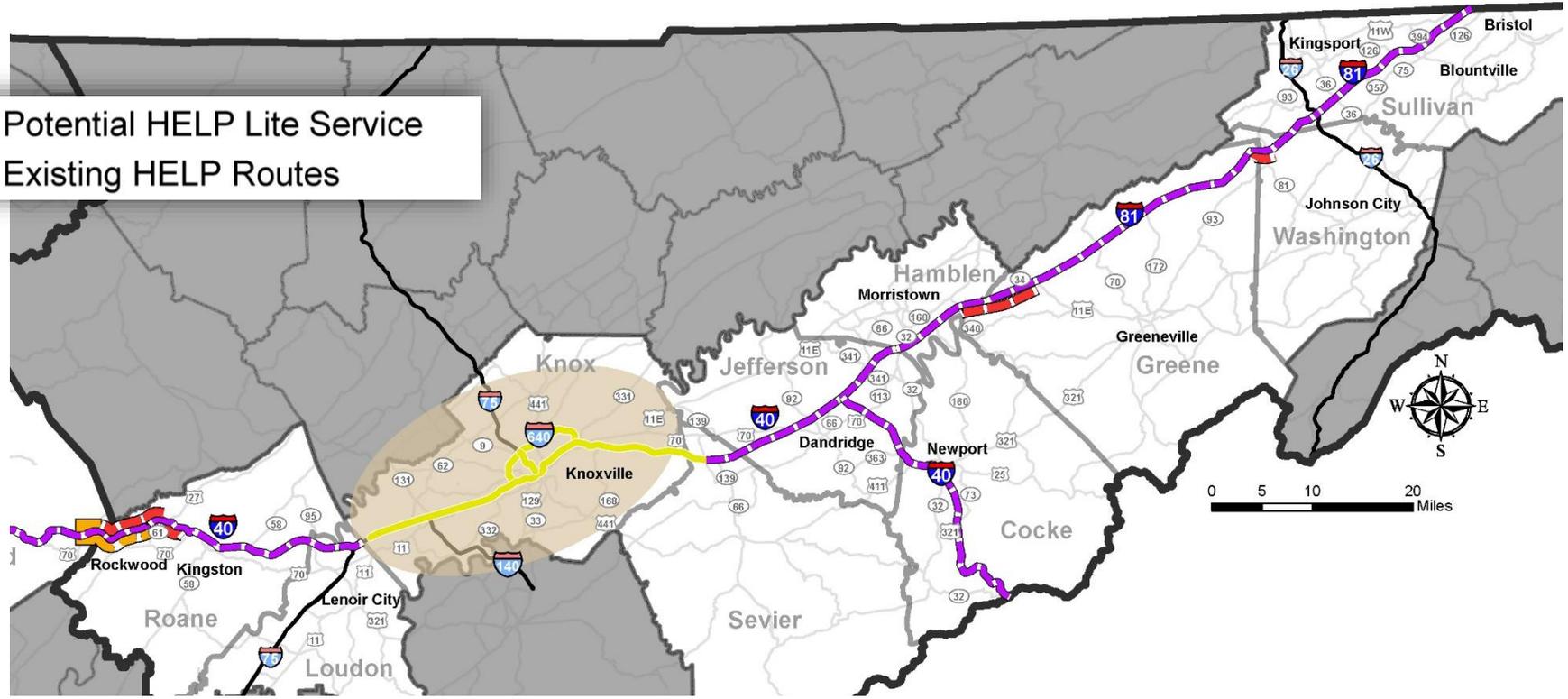
- Interchange upgrades at Exit 369 and 373 (Watt Rd, Campbell Station Rd)
- Widen from I-75 junction to Exit 374 (Lovell Rd)
- Widen from Exit 374 to Exit 385 (I-640)
- Extend westbound lanes from Alcoa Hwy. entrance ramp so that one lane exits to I-640, one lane continues through on I-40
- Separate eastbound traffic between Exits 383 (Papermill) and 385 (I-640)
- Improve eastbound off-ramps at Exit 374 (Lovell Rd), Exit 385 (I-640)
- Improve westbound off-ramp at Exit 387 (Western Ave)



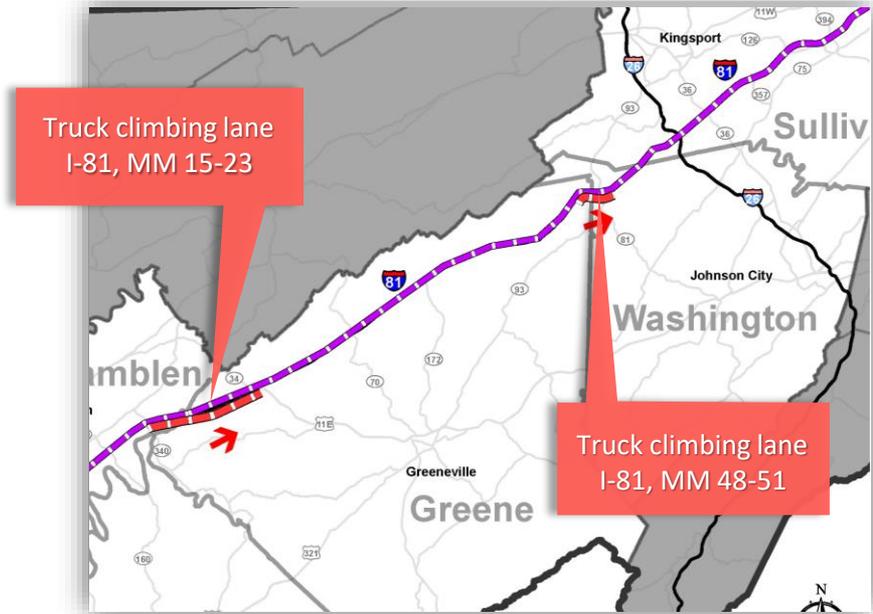
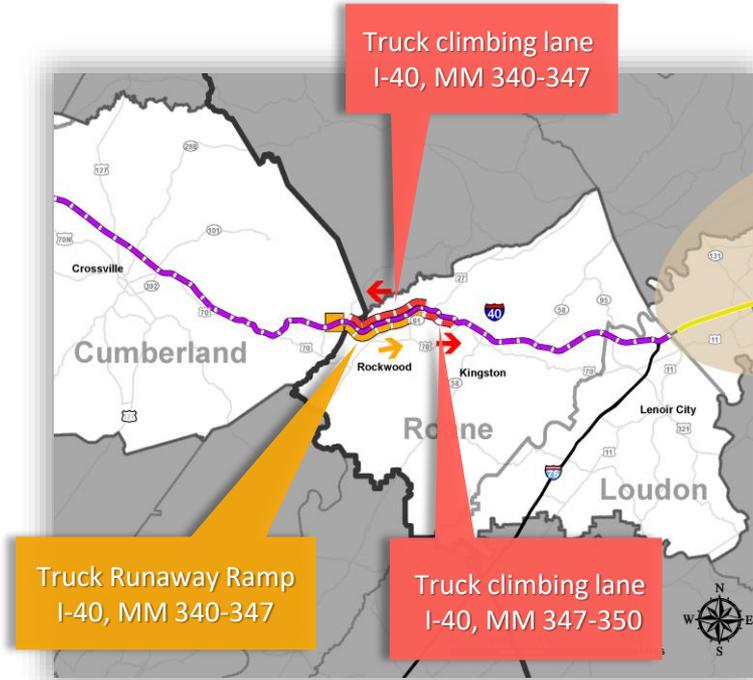
RECOMMENDED SAFETY IMPROVEMENTS



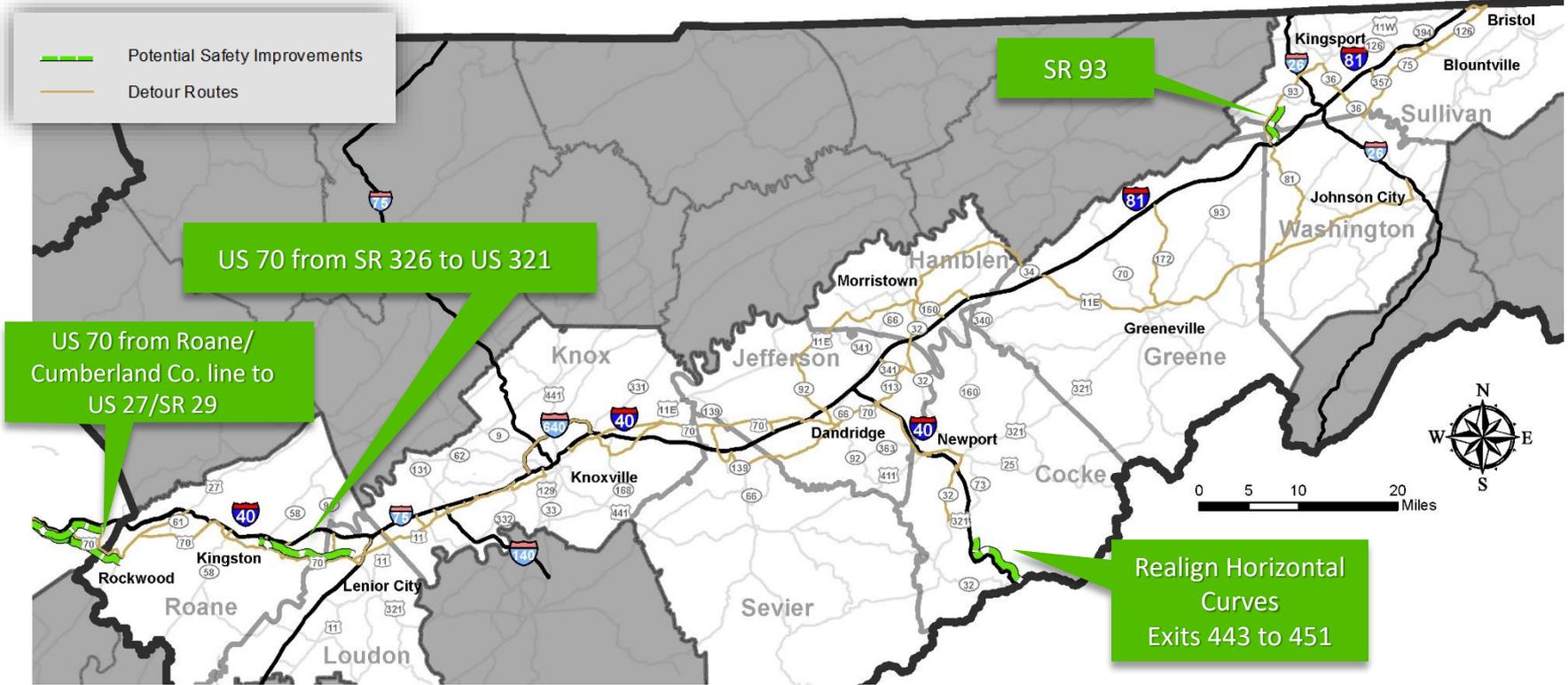
— Potential HELP Lite Service
— Existing HELP Routes



RECOMMENDED SAFETY IMPROVEMENTS



RECOMMENDED SAFETY IMPROVEMENTS



TSMO

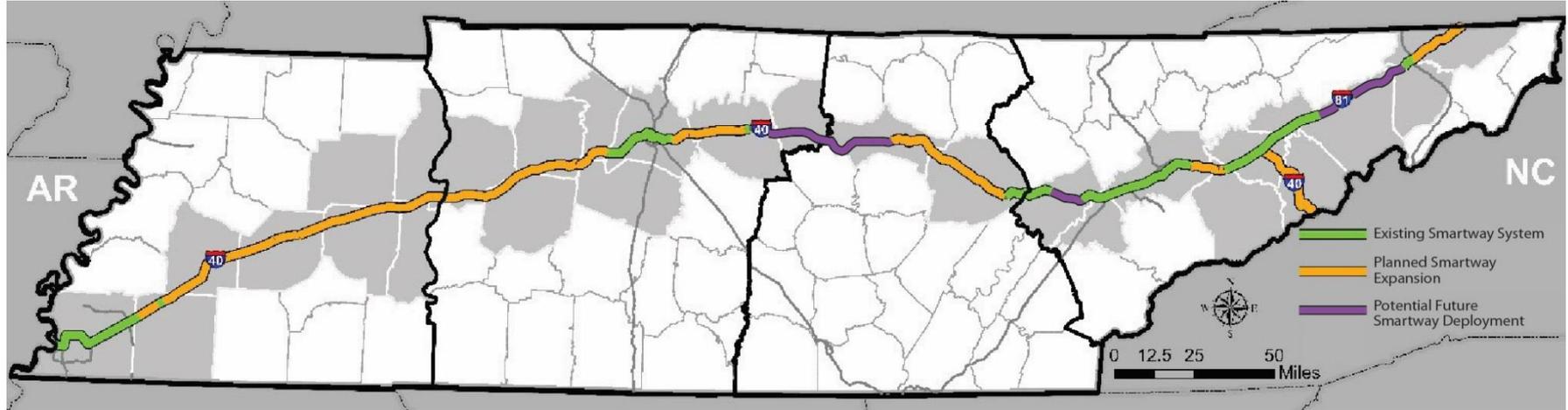
- Management of transportation facilities with strategies to maximize their existing efficiency
- Often involves technology – but not always
- Can delay the need to physically expand the facility

Examples of TSMO strategies:

- ✓ Real-time traveler information
- ✓ Integrated corridor management (ICM)
- ✓ Managed lanes
- ✓ Ramp metering



RECOMMENDED SMARTWAY EXPANSION



Smartway Expansion includes:

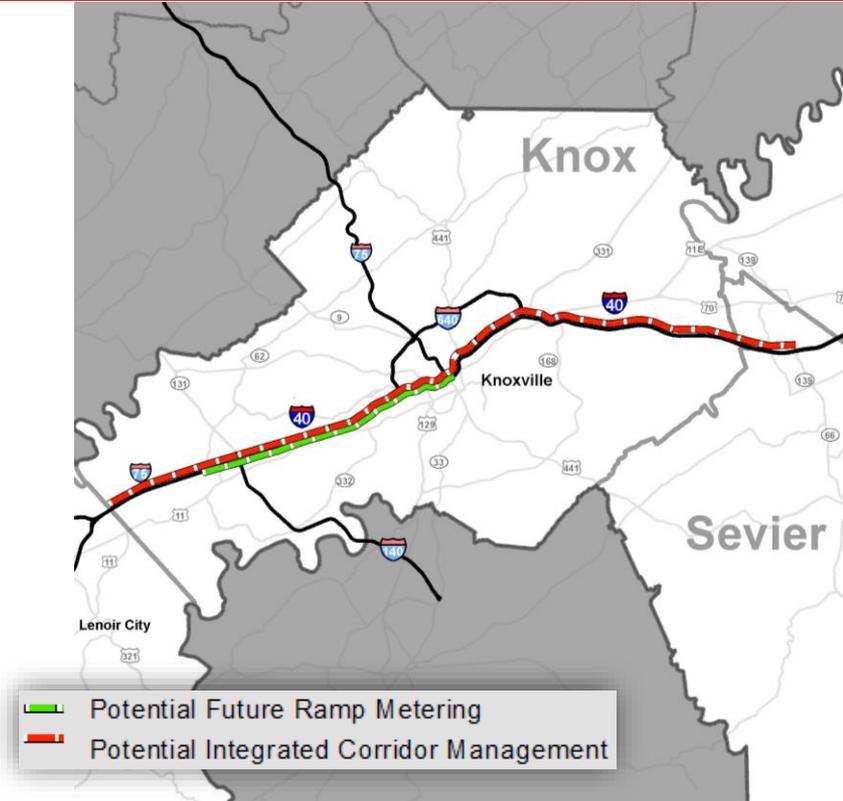
- Radar speed detection
- Roadway weather sensors
- CCTV cameras
- Dynamic message signs

RECOMMENDED TSMO STRATEGIES

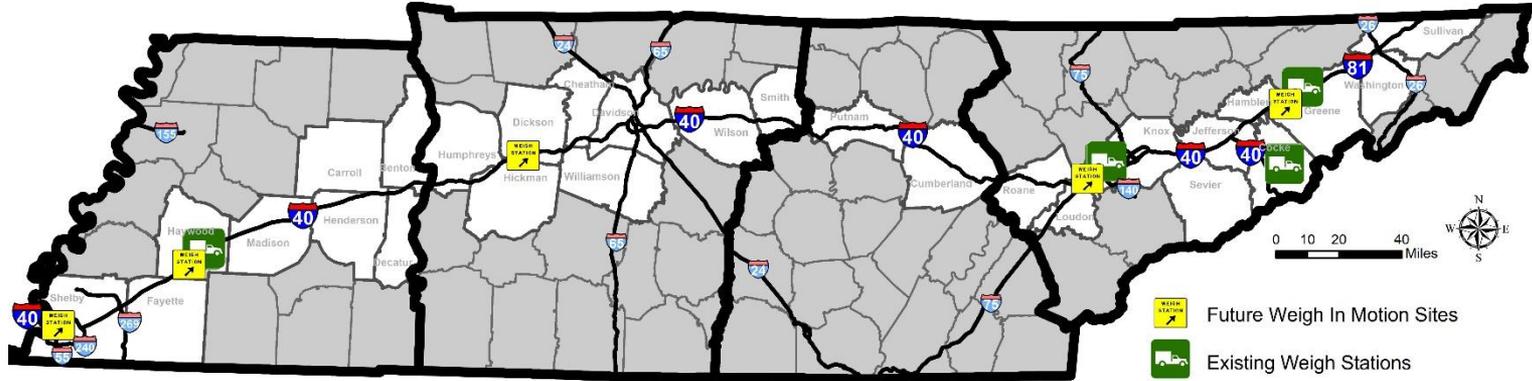


I-40, Knoxville area

- Future Integrated Corridor Management (ICM) from I-75 to Exit 407 (Sevierville)
 - *Adaptive signal timing equipment on local arterial highways is key*
- Potential ramp metering between west Knox County and downtown Knoxville



WEIGH IN MOTION TECHNOLOGY



Future Weigh in Motion sites on I-40 and I-81:

- Shelby County
- Haywood County
- Dickson County
- Knox County
- Greene County

ELECTRIC VEHICLES / ALTERNATIVE FUELS



Legend

Alternative Fuel Corridors

— EV Corridor Ready

— EV Corridor Pending

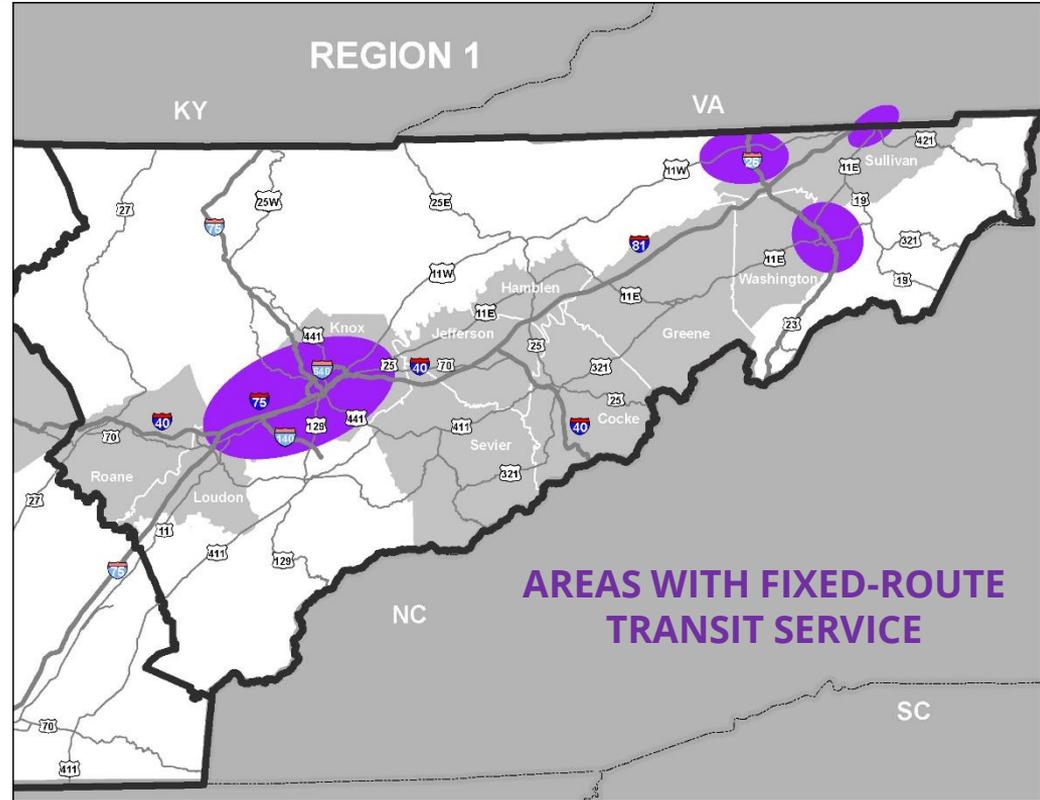
National EV “Corridor Ready” guidelines:

- Public DC fast charging stations at least every 50 miles
- Stations no farther than 5 miles off the corridor
- Equipped with multiple connector types

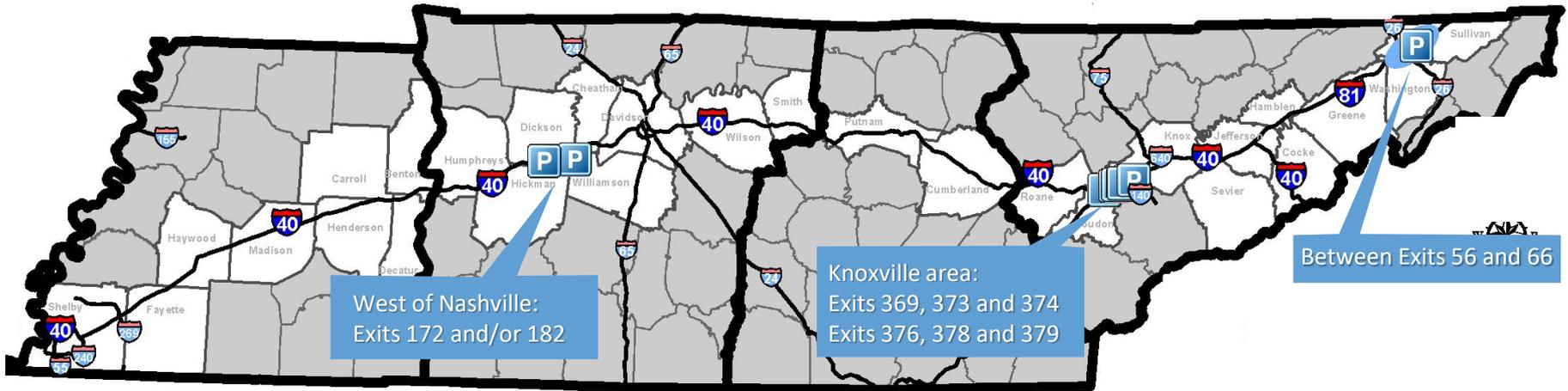
TRANSIT SERVICE



- Intercity services
- Regional services
- Carpool, vanpool programs



FUTURE PARK AND RIDE FACILITIES



HOW TO SHARE YOUR INPUT



Q&A session at today's virtual meeting

Visit the project website:

www.tn.gov/tdot/i-40-81-study.html

Take our survey:

<https://www.surveymonkey.com/r/I4081Study>

Call or e-mail:

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(865) 594-2662 or Troy.J.Ebbert@tn.gov

Joan Barnfield, TDOT Project Manager
(615) 253-2418 or Joan.Barnfield@tn.gov

Mail a letter:

Attention: Joan Barnfield
TDOT Long Range Planning Division
505 Deaderick Street, Suite 900
Nashville, TN 37243-0349

DISCUSSION, QUESTIONS, COMMENTS

